

ARTIFACT SHEET

Enter artifact number below. Artifact number is application number + artifact type code (see list below) + sequential letter (A, B, C ...). The first artifact folder for an artifact type receives the letter A, the second B, etc..
Examples: 59123456PA, 59123456PB, 59123456ZA, 59123456ZB

09427945BA

Indicate quantity of a single type of artifact received but not scanned. Create individual artifact folder/box and artifact number for each Artifact Type.

☐

CD(s) containing:

computer program listing

Doc Code: Computer

pages of specification

and/or sequence listing

and/or table

Doc Code: Artifact

content unspecified or combined

Doc Code: Artifact

☐

Artifact Type Code: P

☐

Artifact Type Code: S

☐

Artifact Type Code: U

☐

Stapled Set(s) Color Documents or B/W Photographs

Doc Code: Artifact Artifact Type Code: C

☐

Microfilm(s)

Doc Code: Artifact Artifact Type Code: F

☐

Video tape(s)

Doc Code: Artifact Artifact Type Code: V

☐

Model(s)

Doc Code: Artifact Artifact Type Code: M

☒

Bound Document(s)

Doc Code: Artifact Artifact Type Code: B

☐

Confidential Information Disclosure Statement or Other Documents marked Proprietary, Trade Secrets, Subject to Protective Order, Material Submitted under MPEP 724.02, etc.

Doc Code: Artifact Artifact Type Code: X

☐

Other, description: _____

Doc Code: Artifact Artifact Type Code: Z

The
United
States
of
America



The Commissioner of
Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Bence Lehman

Commissioner of Patents and Trademarks

Collier M. Person

Attest



US005774662A

United States Patent [19]
Sakagawa

[11] **Patent Number:** **5,774,662**

[45] **Date of Patent:** **Jun. 30, 1998**

[54] **SYSTEM FOR SERVER OBTAINING
 TERMINAL ADDRESS VIA SEARCHING
 ADDRESS TABLE OR VIA BROADCASTING
 TO ALL TERMINALS THROUGH
 EXCHANGE IN RESPONSE TO TERMINAL
 ADDRESS INTERROGATION REQUEST**

5,440,547 8/1995 Easki et al. 370/60
 5,444,702 8/1995 Burnett et al. 370/60.1
 5,450,406 9/1995 Esaki et al. 370/60.1
 5,506,847 4/1996 Shobatake 370/94.3

FOREIGN PATENT DOCUMENTS

4-1333 11/1992 Japan .

Primary Examiner—Thomas C. Lee

Assistant Examiner—David Ton

Attorney, Agent, or Firm—Helfgott & Karas, P.C.

[75] **Inventor:** **Kazuo Sakagawa**, Kawasaki, Japan

[73] **Assignee:** **Fujitsu Limited**, Kanagawa, Japan

[21] **Appl. No.:** **446,496**

[22] **Filed:** **May 22, 1995**

[30] **Foreign Application Priority Data**

Jul. 5, 1994 [JP] Japan 6-153381

[51] **Int. Cl.⁶** **G06F 12/02**

[52] **U.S. Cl.** **395/200.33; 395/412; 395/823**

[58] **Field of Search** **364/200; 340/825.52;
 370/60.1, 60, 94.1, 94.3; 178/2 R; 395/200.33,
 412, 823**

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,836,317 6/1989 Straussman 178/2 R
 5,021,943 6/1991 Grimes 364/200
 5,157,390 10/1992 Yoshie et al. 340/825.52
 5,278,829 1/1994 Dunlap 370/94.1

[57] **ABSTRACT**

A originating terminal sends an ATM address interrogation request to a server if the ATM address of another party's terminal is unknown at the time of communication. Upon receiving the ATM address interrogation request from the terminal, the server refers to an ATM address table, searches the table for an ATM address corresponding to a protocol address contained in the interrogation request and notifies the originating terminal of this ATM address. If an ATM address corresponding to the protocol address has not been registered in the ATM address table, the server transfers (broadcasts) the ATM address interrogation request to all terminals. The server notifies the originating terminal of an ATM address obtained by an answer in response to this interrogation request and registers the ATM address in the ATM address table.

15 Claims, 22 Drawing Sheets

